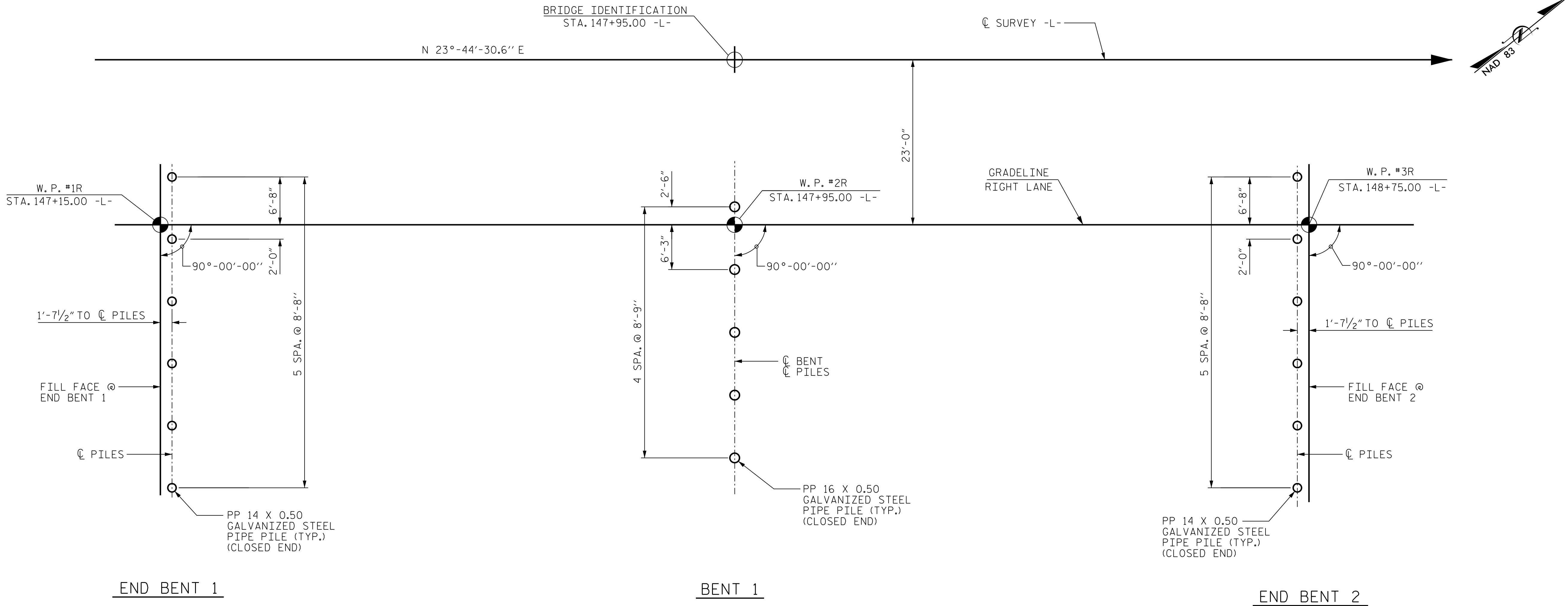


G:\CKE Projects\CKE\_R2514B Onslow Jones Co\Structures\Site 3\R-2514B\_SD\_03\_0D02.dgn  
1/27/2015 8:36:31 AM CKE\_R2514B\_PDF\_full.pltcfgr2514B\_str.tbl



## FOUNDATION LAYOUT

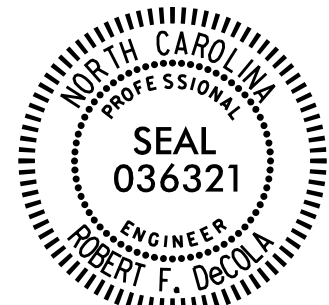
DIMENSIONS LOCATING PILES ARE TO CENTERLINE PILE.

### FOUNDATION NOTES :

- FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- PILES AT END BENT 1 AND END BENT 2 ARE DESIGN FOR A FACTORED RESISTANCE OF 135 TONS.
- PILES AT BENT 1 ARE DESIGNED FOR FACTORED RESISTANCE OF 200 TONS.
- DRIVE PILES AT END BENT 1 AND END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 180 TONS.
- DRIVE PILES AT BENT 1 TO A REQUIRED DRIVING RESISTANCE OF 270 TONS.
- STEEL PIPE PILE CONICAL POINTS ARE REQUIRED FOR STEEL PIPE PILES AT BENT 1. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- THE SCOUR CRITICAL ELEVATION FOR BENT 1 IS ELEVATION 10 FT. SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.
- TESTING THE FIRST PRODUCTION PILE WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING IS REQUIRED AT END BENT 1, BENT 1 OR END BENT 2 FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 50-100 FT-KIPS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT BENT 1. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D)(2) OF THE STANDARD SPECIFICATIONS.
- PIPE PILE PLATES ARE REQUIRED FOR STEEL PIPE PILES AT END BENT 1 AND END BENT 2. USE PIPE PILE PLATES WITH A DIAMETER EQUAL TO THE PIPE PILE DIAMETER. FOR STEEL PIPE PILE PLATES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- FOR CONICAL STEEL PILES POINTS, SEE SPECIAL PROVISIONS.

PROJECT NO. R-2514B  
ONSLow COUNTY  
STATION: 147+95.00 -L-

SHEET 2 OF 3



DocuSigned by  
Robert F. Decola  
1D1F6A178142D...

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

GENERAL DRAWING  
BRIDGE OVER HIGGINS BRANCH  
ON PROPOSED US 17 BYPASS  
BETWEEN SR 1331 AND SR 1116  
(RIGHT LANE)

DRAWN BY : J. MYA DATE : 11/13  
CHECKED BY : R. DECOLA DATE : 05/14  
DESIGN ENGINEER OF RECORD : R. DECOLA DATE : 10/14



The LOUIS BERGER GROUP, Inc.  
1001 Wade Avenue, Suite 400  
Raleigh, NC 27605-3322  
NC COA No. F-0840

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO.  
S3-2  
TOTAL  
SHEETS  
34